

(1-Hydroxy-2,2,2-trichloroethyl)formamide

Other names:	Formamide, N-(2,2,2-trichloro-1-hydroxyethyl)- Chloral formamide Chloralamide N-(1-Hydroxy-2,2,2-trichloroethyl)formamide N-(2,2,2-Trichloro-1-hydroxyethyl)formamide Chloramide
Inchi:	InChI=1S/C3H4Cl3NO2/c4-3(5,6)2(9)7-1-8/h1-2,9H,(H,7,8)
InchiKey:	ACZVWYLTJHGUCP-UHFFFAOYSA-N
Formula:	C3H4Cl3NO2
SMILES:	O=CNC(O)C(Cl)(Cl)Cl
Mol. weight [g/mol]:	192.43
CAS:	515-82-2

Physical Properties

Property code	Value	Unit	Source
gf	-207.96	kJ/mol	Joback Method
hf	-350.84	kJ/mol	Joback Method
hfus	16.66	kJ/mol	Joback Method
hvap	63.58	kJ/mol	Joback Method
log10ws	-1.47		Crippen Method
logp	0.421		Crippen Method
mcvol	107.270	ml/mol	McGowan Method
pc	5022.80	kPa	Joback Method
tb	567.67	K	Joback Method
tc	772.57	K	Joback Method
tf	356.23	K	Joback Method
vc	0.405	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	208.10	J/mol×K	567.67	Joback Method
cpg	213.12	J/mol×K	601.82	Joback Method
cpg	217.68	J/mol×K	635.97	Joback Method

cpg	221.84	J/mol×K	670.12	Joback Method
cpg	225.60	J/mol×K	704.27	Joback Method
cpg	229.02	J/mol×K	738.42	Joback Method
cpg	232.13	J/mol×K	772.57	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C515822&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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